

FIG. 1

5' splice junction: $\begin{matrix} & A \\ AGGT & GGT \\ & G \end{matrix}$

3' splice junction: $\begin{matrix} TT & TT & TT & TT & TT \\ CC & TT & C & C & C & C & C \end{matrix} XAGGT$

Promoter region: TATAA

Poly A: ATAATA

Alu repeats: Repeats of about 250 bases

Homeobox: A sequence of about 180 bases coding for ~ 60 amino acids

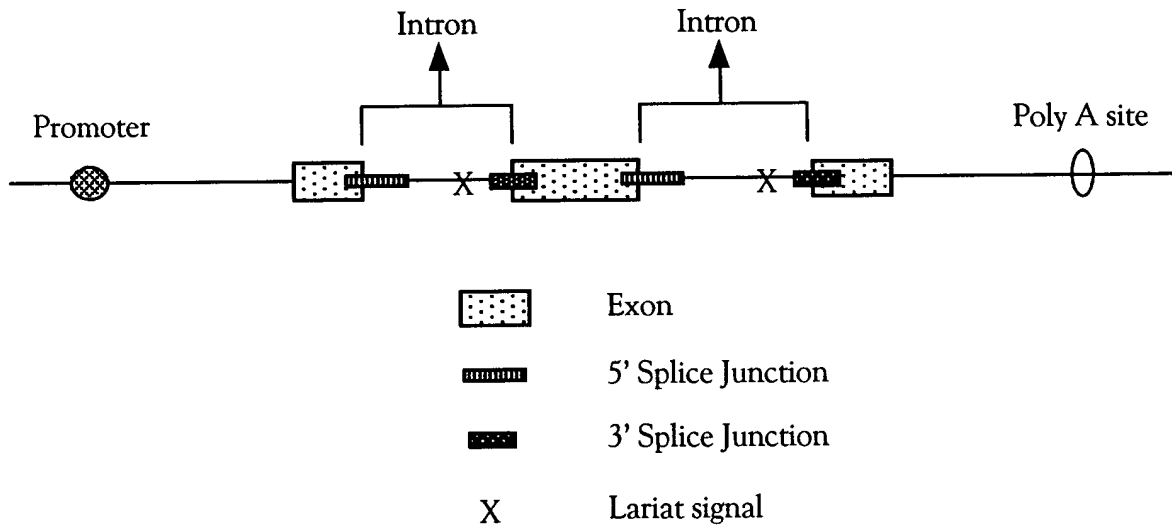
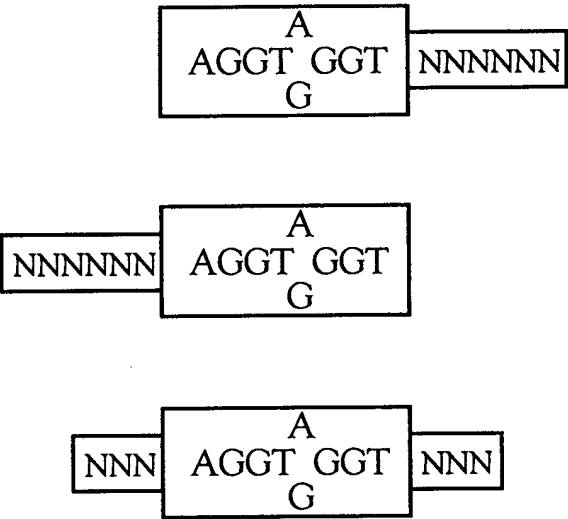


FIG. 2

5' Splice Consensus Primer



Promoter Consensus Sequence:

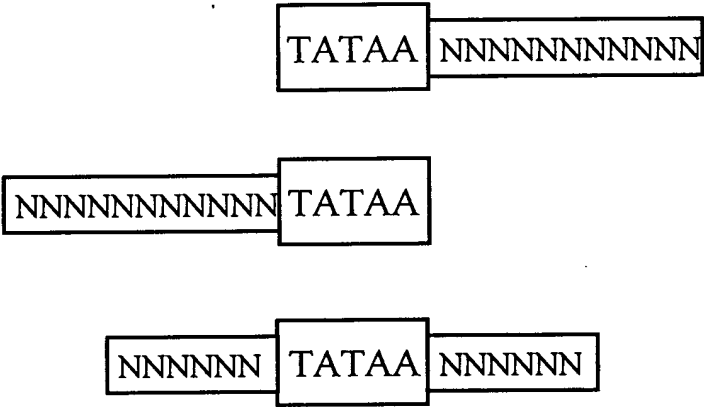


FIG. 3

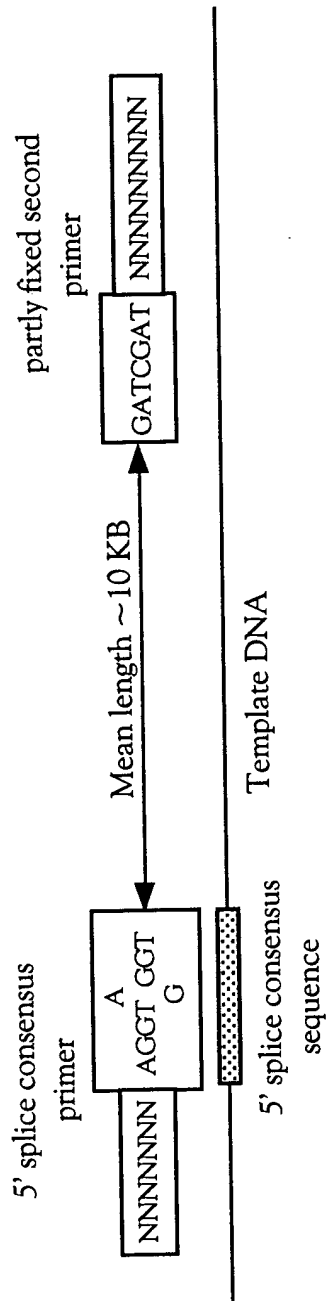


FIG. 4A

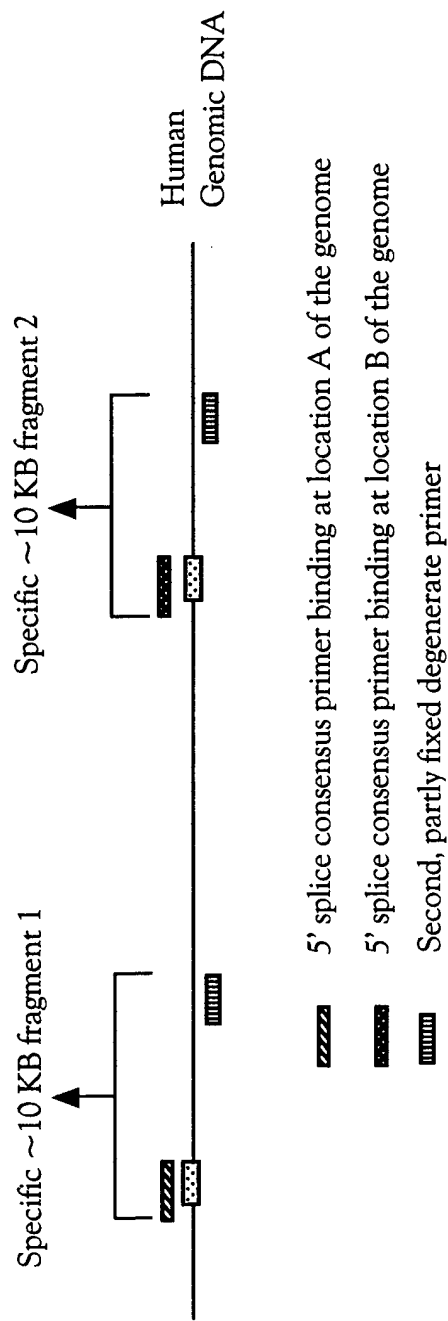


FIG. 4B

PCR amplify between 3' and 5'
splice consensus primers

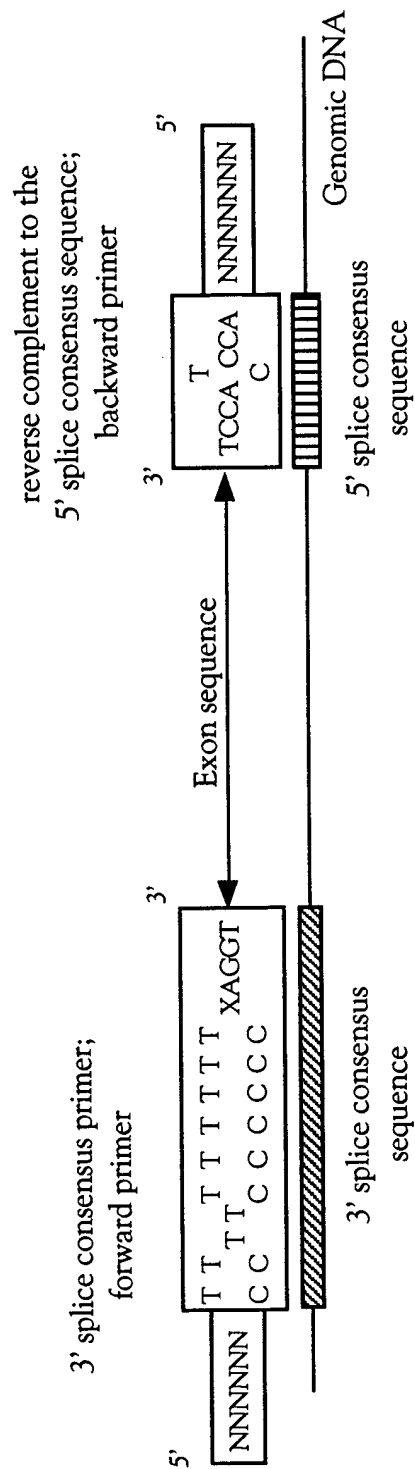


FIG. 5A

Change 3 Ns to individual triplets in a PCR reaction:
 Total number of triplets/PCR reactions = 64

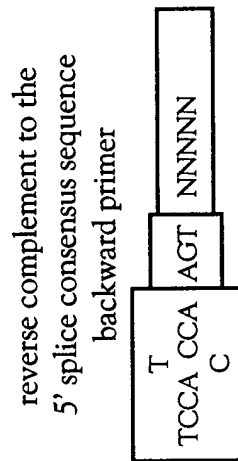


FIG. 5B

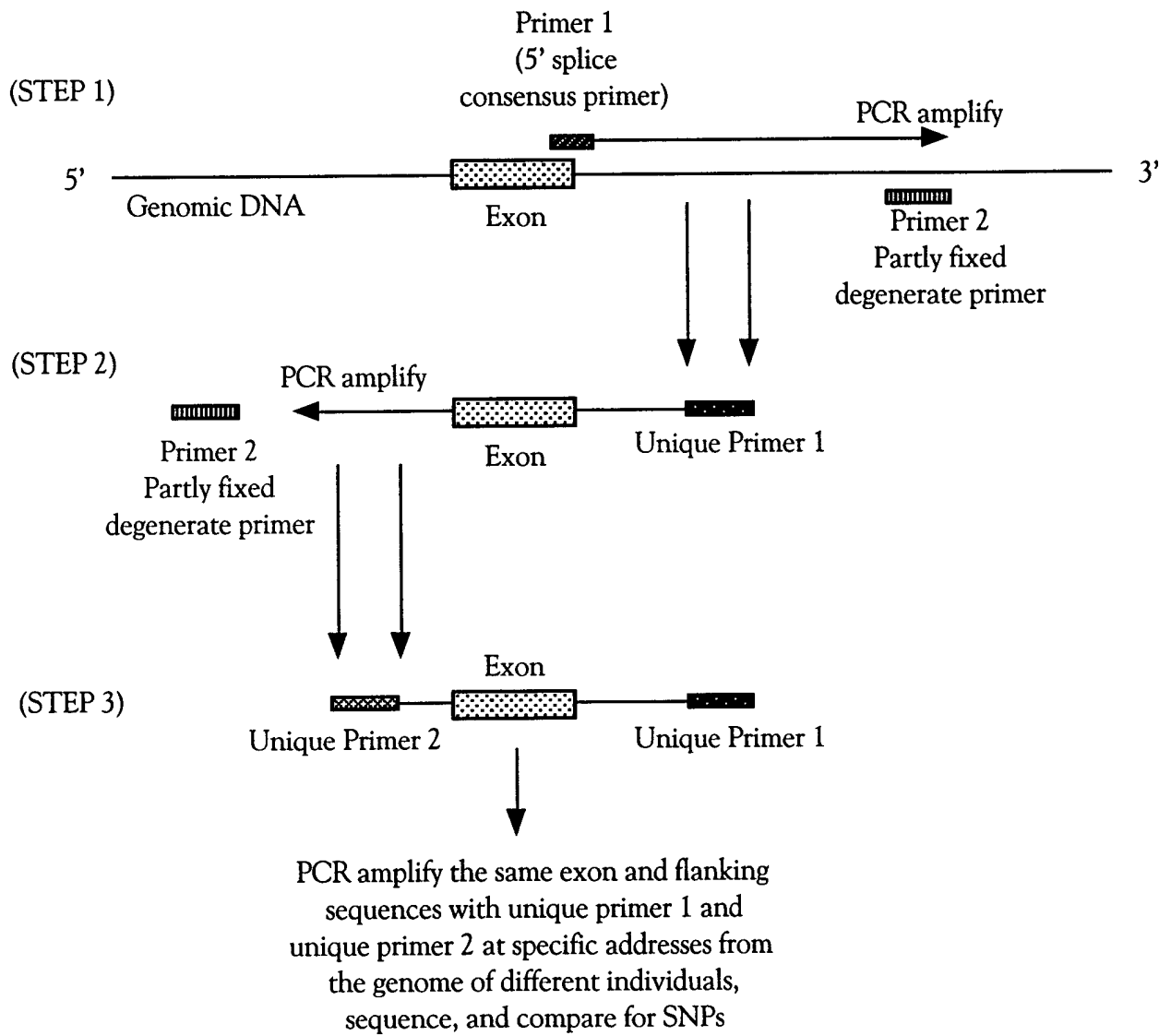
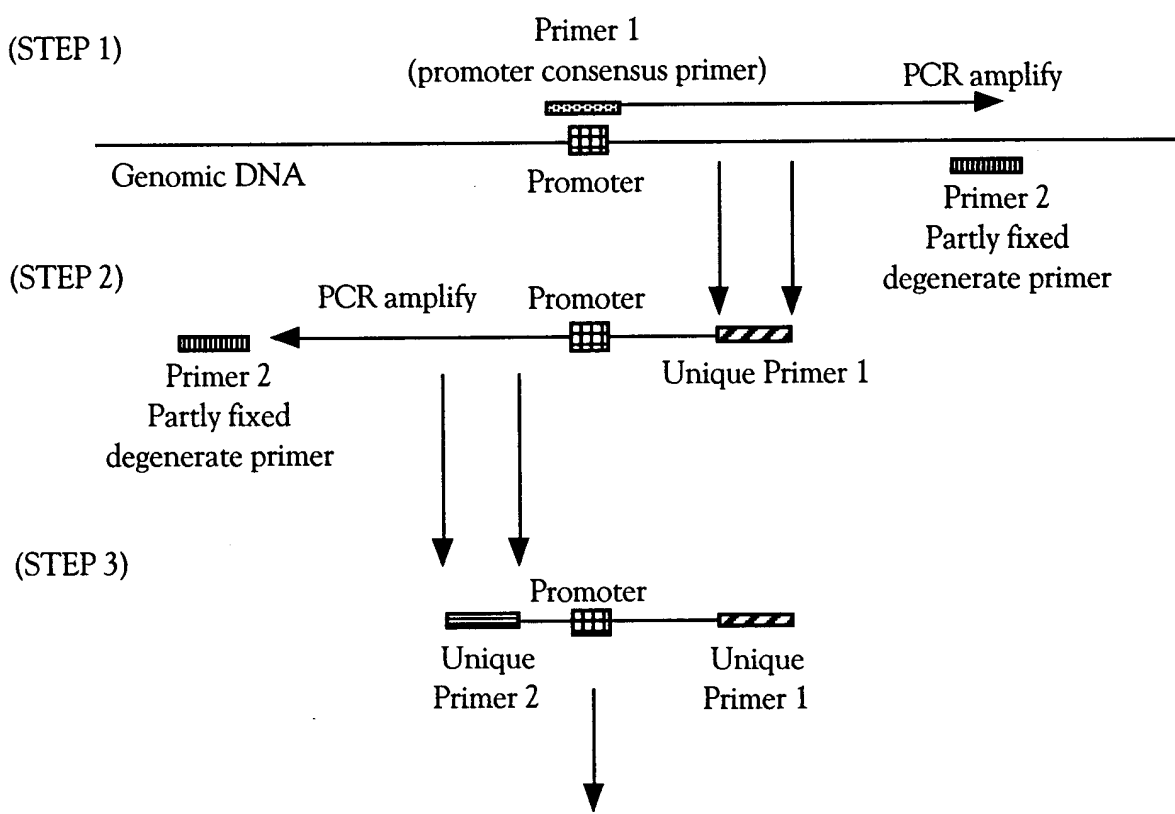


FIG. 6



PCR amplify the same promoter and flanking sequences with unique primer 1 and unique primer 2 from the genome of different individuals, sequence and compare for SNPs

FIG. 7